PZR (D17B10) XP[®] Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30-50	Source/Isotype: Rabbit IgG	UniProt ID: #O95297	Entrez-Gene Id: 9019		
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence		iistry)		Dilution 1:1000 1:50 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	PZR (D17B10) XP $^{ extsf{B}}$ Rabbit mAb recognizes endogenous levels of total PZR protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu209 of human PZR protein.						
Background		PZR (Protein zero related) is an immunoglobulin superfamily protein that specifically binds the tyrosine phosphatase SHP-2 through its intracellular immunoreceptor tyrosine-based inhibitory motifs (ITIMs) (1,2). PZR is phosphorylated by c-Src, c-Fyn, c-Lyn, Csk, and c-Abl (3). PP1, a Src family kinase inhibitor, inhibits PZR phosphorylation (4,5). There are three alternatively spliced isoforms, designated as PZR, PZRa, and PZRb; both PZRa and PZRb lack ITIMs (6,7). PZR is the main receptor of ConA and has an important role in cell signaling via c-Src (4). PZR is expressed in many cell types and is localized to cell contacts and intracellular granules in BAECs and mesothelioma (REN) cells. PZR has been implicated as a cell adhesion protein that may be involved in SHP-2-dependent signaling at interendothelial cell contacts (3). Hypertyrosine phosphorylation of PZR was observed during embryogenesis in a mouse model of Noonan syndrome (8).						
Background Re	eferences	 Zhao, Z.J. and Zhao, R. (1998) J Biol Chem 273, 29367-72. Zhao, R. and Zhao, Z.J. (2000) J Biol Chem 275, 5453-9. Kusano, K. et al. Endothelium 15, 127-36. Zhao, R. et al. (2002) J Biol Chem 277, 7882-8. Zhao, R. et al. (2003) J Biol Chem 278, 42893-8. Zannettino, A.C. et al. (2003) Biochem J 370, 537-49. Zhao, R. and Zhao, Z.J. (2003) Biochem Biophys Res Commun 303, 1028-33. Eminaga, S. and Bennett, A.M. (2008) J Biol Chem 283, 15328-38. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human						
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